

4.2.B. 0604000302 (Rutherford Fork).

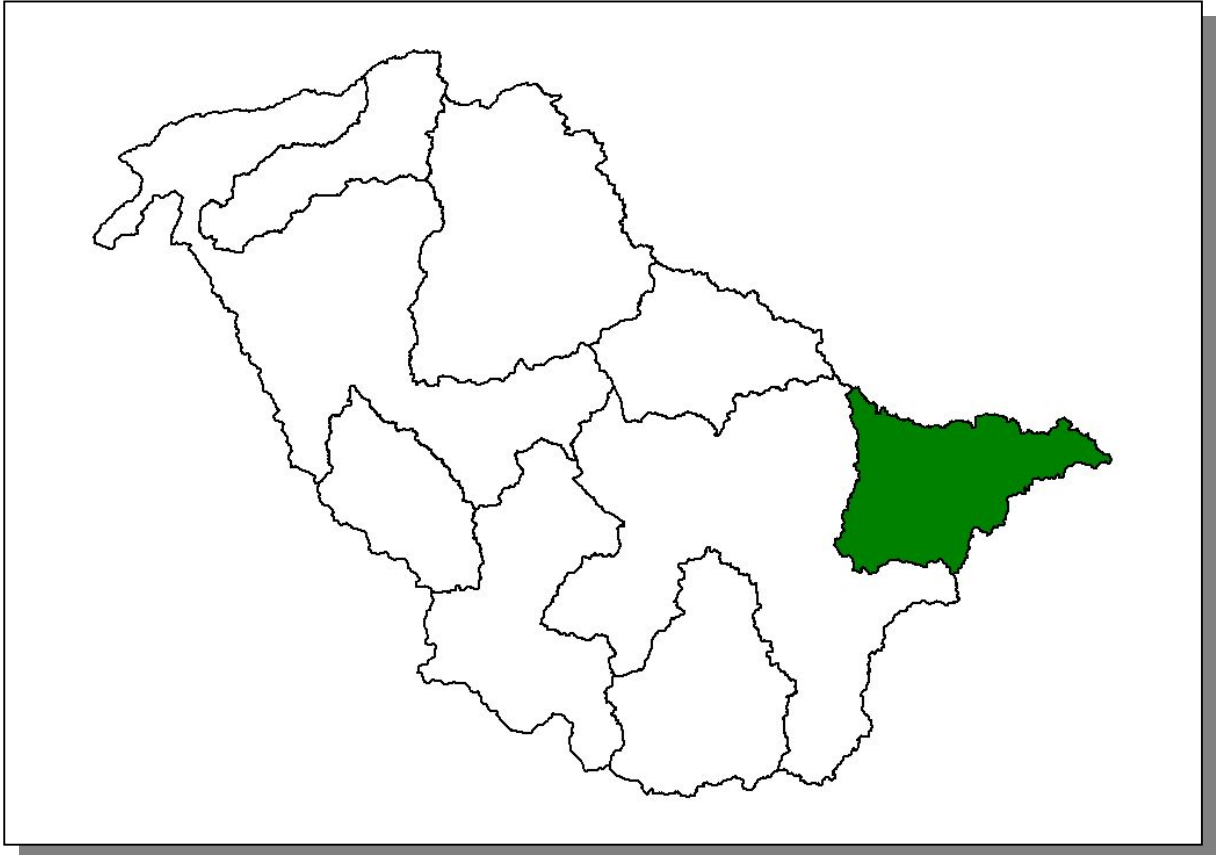


Figure 4-14. Location of Subwatershed 0604000302. All Lower Duck HUC-10 subwatershed boundaries are shown for reference.

4.2.B.i. General Description.

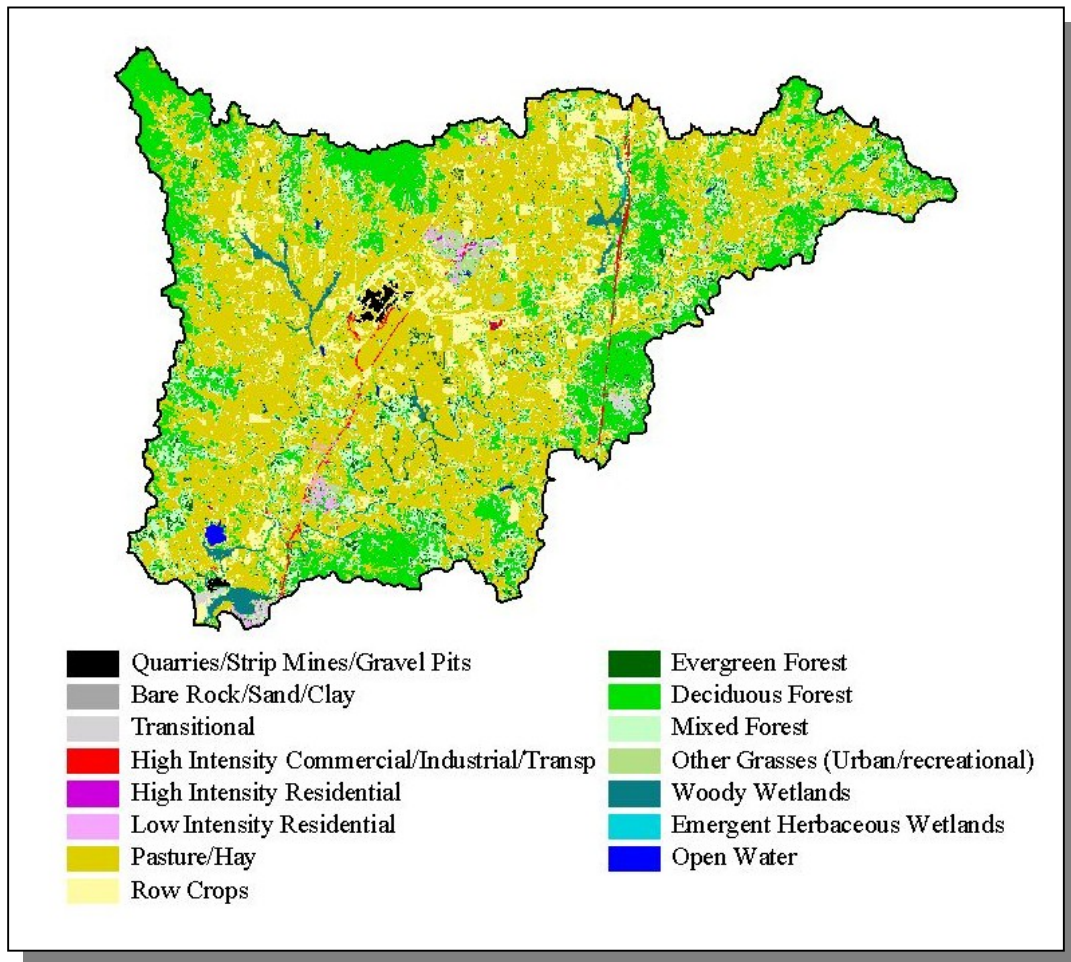


Figure 4-15. Illustration of Land Use Distribution in Subwatershed 0604000302.

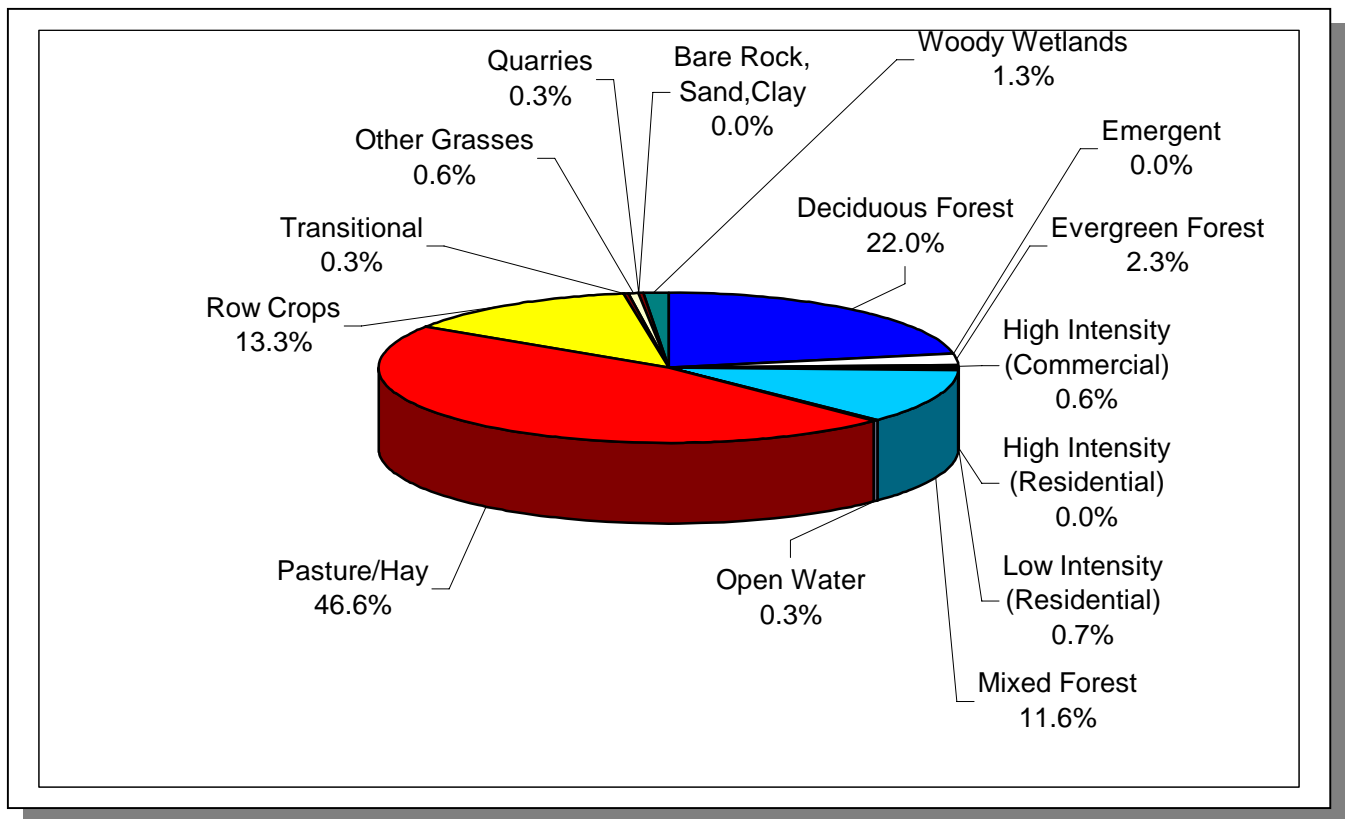


Figure 4-16. Land Use Distribution in Subwatershed 0604000302. More information is provided in Appendix IV.

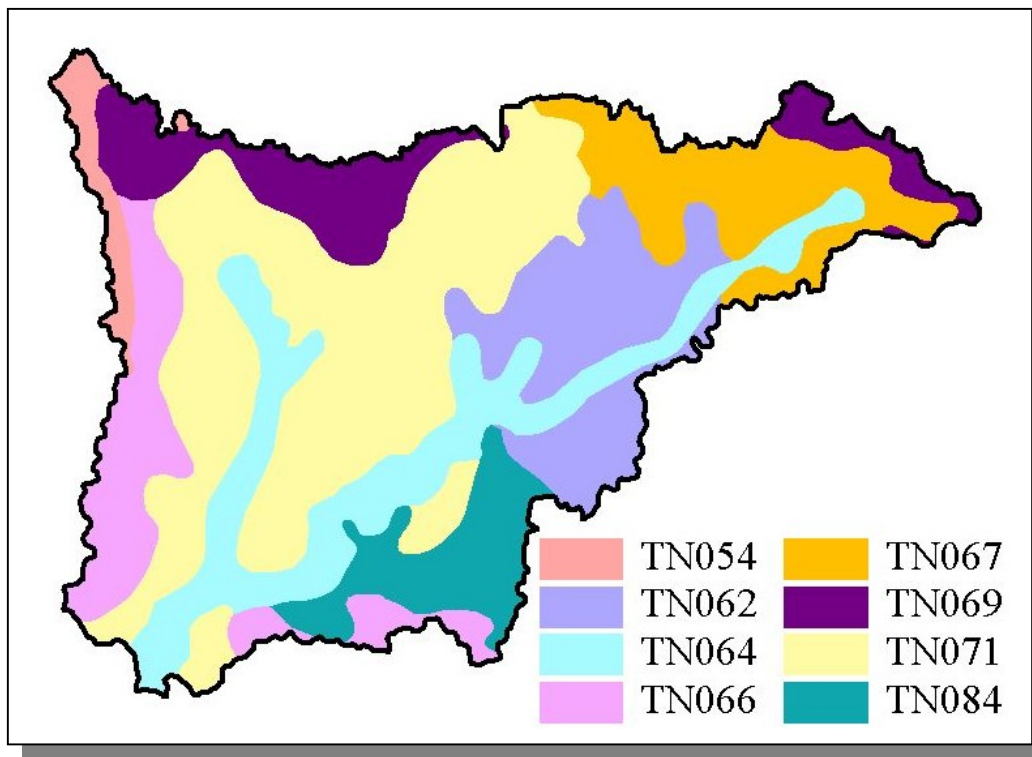


Figure 4-17. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000302.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN066	0.00	B	2.62	4.75	Loam	0.28
TN067	2.00	C	2.69	5.51	Silty Loam	0.35
TN069	0.00	C	2.06	5.36	Loam	0.34
TN071	0.00	C	2.37	5.70	Silty Loam	0.33
TN084	0.00	C	1.80	4.99	Silty Loam	0.28

Table 4-7. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000302. More information is provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-1997)
	1990	1997	2000		1990	1997	2000	
Maury	54,812	68,268	69,498	13.97	7,657	9,536	9,708	26.8
Williamson	81,021	111,453	126,638	5.22	4,235	5,825	6,619	56.3
Totals	135,833	179,721	196,136		11,892	15,361	16,327	37.3

Table 4-8. Population Estimates in Subwatershed 0604000302.

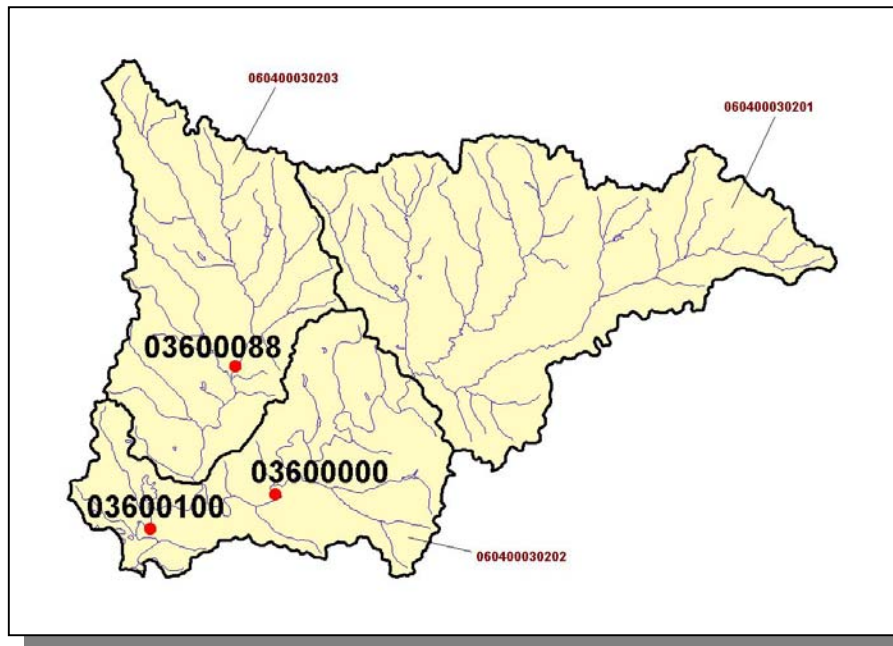


Figure 4-18. Location of Historical Streamflow Data Collection Sites in Subwatershed 0604000302. Subwatershed 060400030201, 060400030202, and 060400030203, boundaries are shown for reference. More information is provided in Appendix IV.

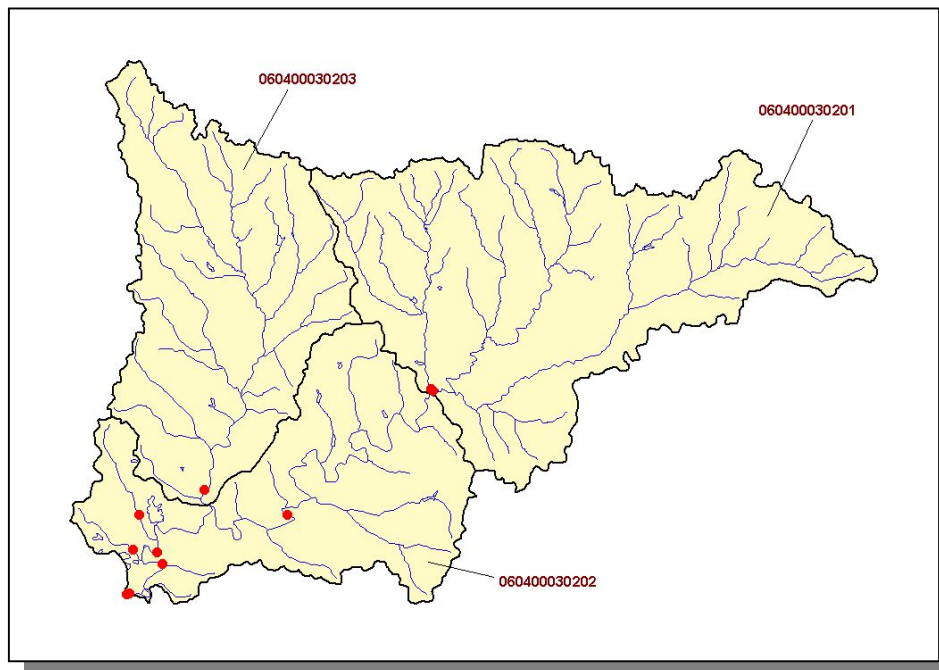


Figure 4-19. Location of STORET Monitoring Sites in Subwatershed 0604000302. Subwatershed 060400030201, 060400030202, and 060400030203, boundaries are shown for reference. More information, including site names and locations, is provided in Appendix IV.

4.2.B.ii. Point Source Contributions.

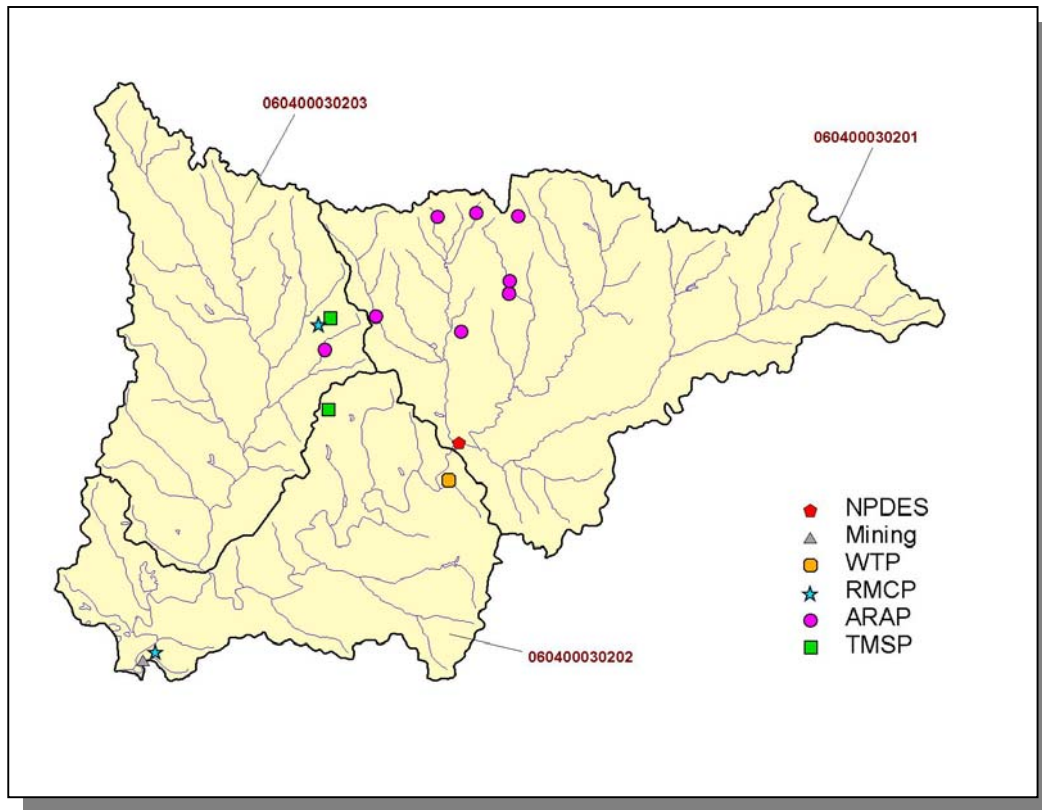


Figure 4-20. Location of Active Point Source Facilities in Subwatershed 0604000302. Subwatershed 060400030201, 060400030202, and 060400030203 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-21. Location of NPDES Facilities in Subwatershed 0604000302. Subwatershed 060400030201, 060400030202, and 060400030203 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

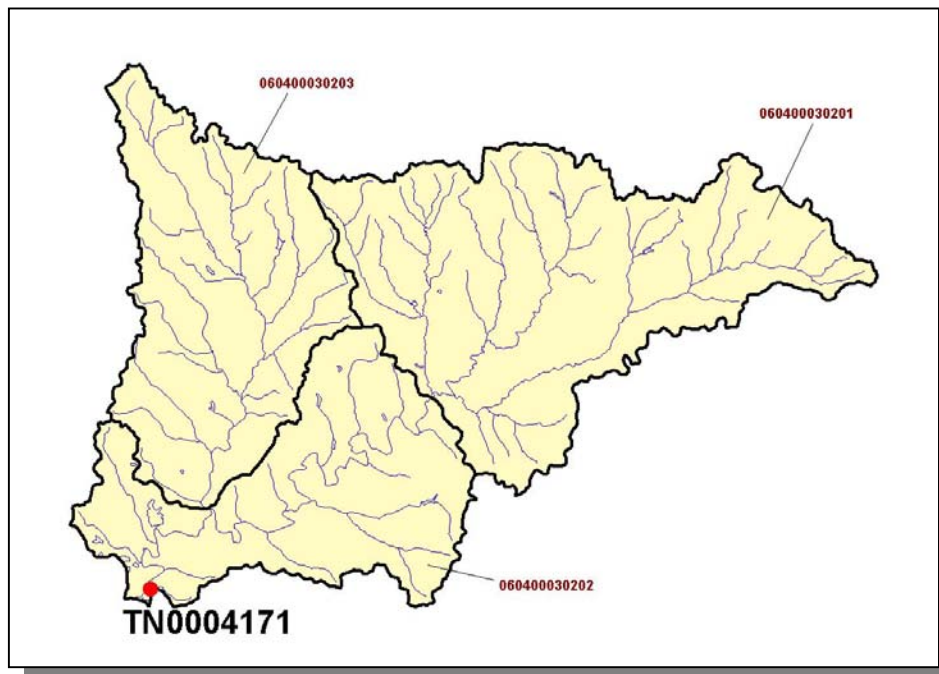


Figure 4-22. Location of Active Mining Facilities in Subwatershed 0604000302. Subwatershed 060400030201, 060400030202, and 060400030203 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

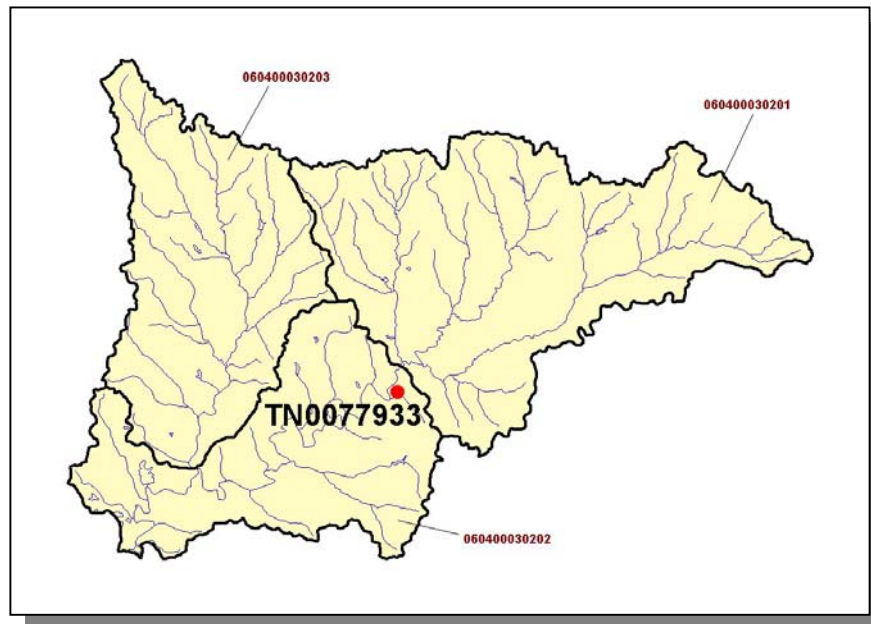


Figure 4-23. Location of Water Treatment Plants in Subwatershed 0604000302. Subwatershed 060400030201, 060400030202, and 060400030203 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

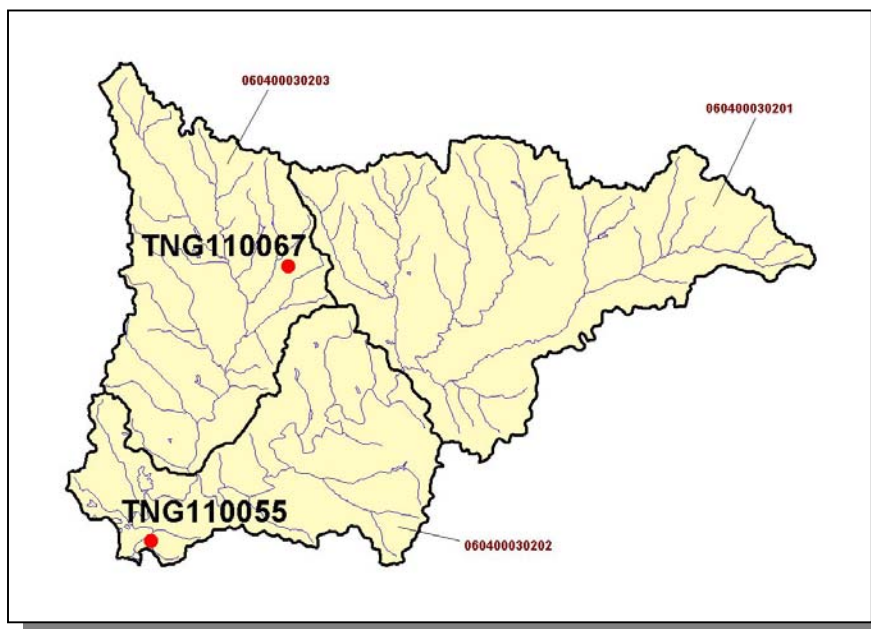


Figure 4-24. Location of Ready Mix Concrete Plants in Subwatershed 0604000302. Subwatershed 060400030201, 060400030202, and 060400030203 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

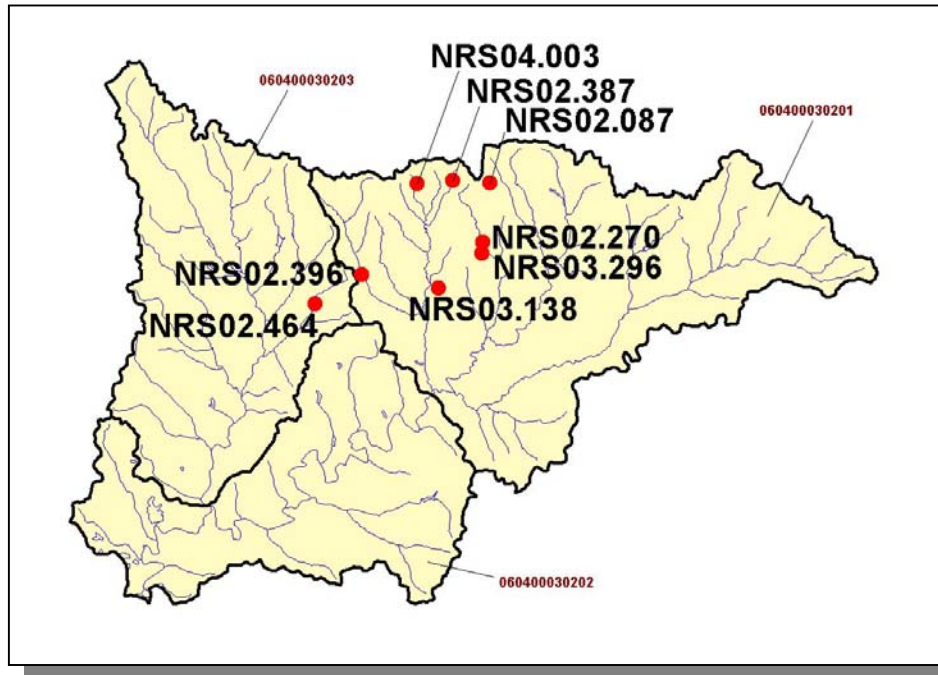


Figure 4-25. Location of ARAP Sites (Individual Permits) in Subwatershed 0604000302. Subwatershed 060400030201, 060400030202, and 060400030203 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-26. Location of TMSP Facilities in Subwatershed 0604000302. Subwatershed 060400030201, 060400030202, and 060400030203 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

4.2.B.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (layers)	Chickens Sold	Hogs	Sheep
7,672	15,541	726	18	<5	398	122

Table 4-9. Summary of Livestock Count Estimates in Subwatershed 0604000302. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

CROPS	TONS/ACRE/YEAR
Legume (Pastureland)	0.33
Grass (Pastureland)	0.65
Grass (Hayland)	0.26
Legumes (Hayland)	0.98
Legumes, Grass (Hayland)	0.24
Grass, Forbs, Legumes (Mixed Pasture)	0.30
Forest Land (Not Grazed)	0.00
Forest Land (Grazed)	0.00
Corn (Row Crops)	4.87
Soybeans (Row Crops)	6.84
Tobacco (Row Crops)	6.75
All Other Row Crops	11.45
Wheat (Close-Grown Cropland)	1.27
Other Cropland not Planted	4.98
Conservation Reserve Program Lands	0.37
Non-Agricultural Land Use	0.00
Other Land in Farms	0.12
Farmsteads and Ranch Headquarters	0.42

Table 4-10. Annual Estimated Total Soil Loss in Subwatershed 0604000302.